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(71) Applicant : **TEXAS INSTRUMENTS LIMITED**
Manton Lane
Bedford MK41 7PA (GB)

(72) Inventor : **Ritchie, James Kenneth Alexander**
31 Lovell Road
Bedford, MK42 0LR (GB)
Inventor : **Abbott, David**
156 Tyne Crescent
Bedford, MK41 7YB (GB)
Inventor : **Anderson, Adrian**
Trellech Grange
Chepstow, Gwent NG6 6QW (GB)
Inventor : **Parris, Clifford**
3 Park Glade
Tintern, Gwent NP6 6TX (GB)

(74) Representative : **Abbott, David John et al**
Abel & Imray Northumberland House 303-306
High Holborn
London, WC1V 7LH (GB)

(54) **Method and apparatus for signal processing.**

(57) A digital demodulator for a NICAM 728 system signal has sampling and digitizing means converting the signal into a succession of digital samples. The digital samples pass through an anti-aliasing digital comb filter to a selector (decimator) that selects one sample in three and feeds it to a second digital filter. Digital matched filters for the in-phase (I) and quadrature (Q) components of the signal effect the demodulation. Carrier and symbols tracking is carried out digitally. A pulse-width modulated automatic gain control signal is produced for controlling the amplitude of the signal applied to the sampling and digitizing means.

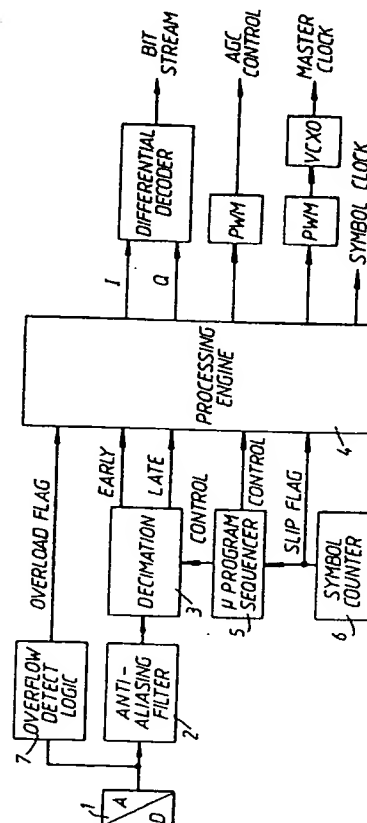


Fig.1.

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	<p>ELECTRONIC COMPONENTS and APPLICATIONS, vol.10, no.3, Eindhoven, NL, XP000288521, pages 121-127; P. DOUBLE: 'NICAM-728 two-channel digital TV sound' * the whole document *</p> <p>-----</p>	1, 18	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 11 MAY 1993	Examiner HOEKSTRA A.
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons</p> <p>Δ : member of the same patent family, corresponding document</p>			

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